



TVA's Bulk System Transmission Planning

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Discussion Items:

1. Planning Philosophy
2. Overview of Current Challenges
3. Generation Changes
4. Load Growth
5. Major Projects By Area



Planning Philosophy

- Use NERC/SERC Planning Criteria
- Plan to serve native load and meet firm transmission service capacity commitments – not transfers caused by marketing activities



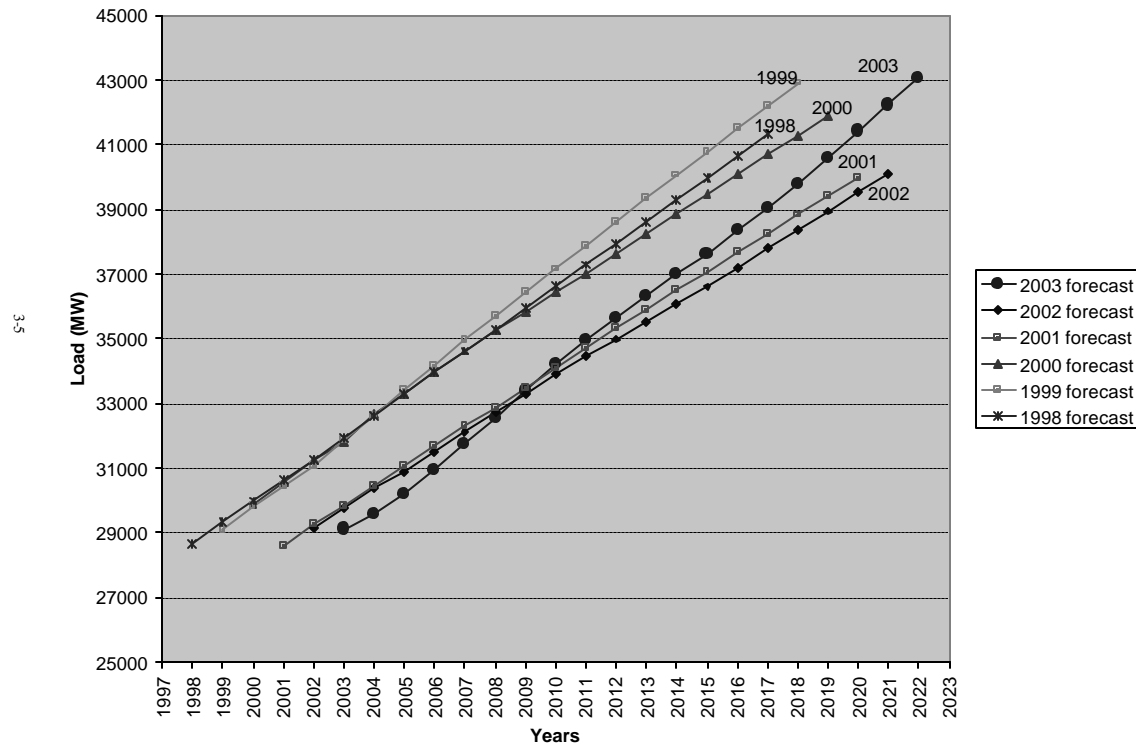
Challenges Facing Planning

- High load growth
- Uncertainties in the amount of load that TVA is to serve.
- New generation sources
- Increasing customer reliability expectations
- Budget restrictions
- Impact of marketing activity
- Maintenance of data



TVA LOAD GROWTH FORECAST

1998-2003 TVA Coincident Normal Summer Load Forecasts



- Summer load growth at 2.3% per year (~4800MW by 2010)
- Forecast can change significantly from year to year
- Potential load reductions of about 1000MW by 2009 and greater by 2010.



Future TVA Generation Plans

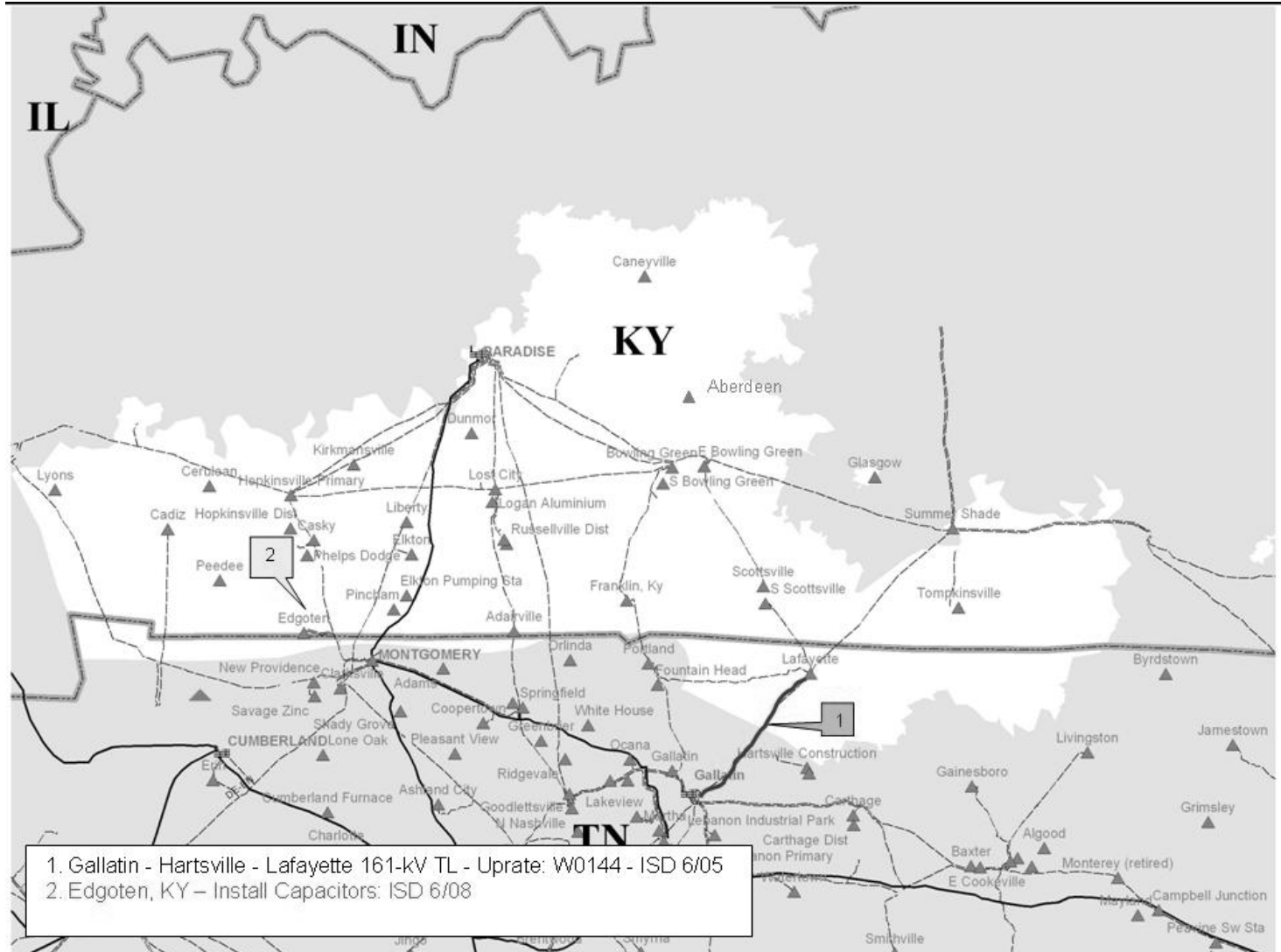
- Browns Ferry Nuclear Unit #1 Restart
Spring 2007 - 1248 MW
- Other uprates of existing units planned thru 2008.



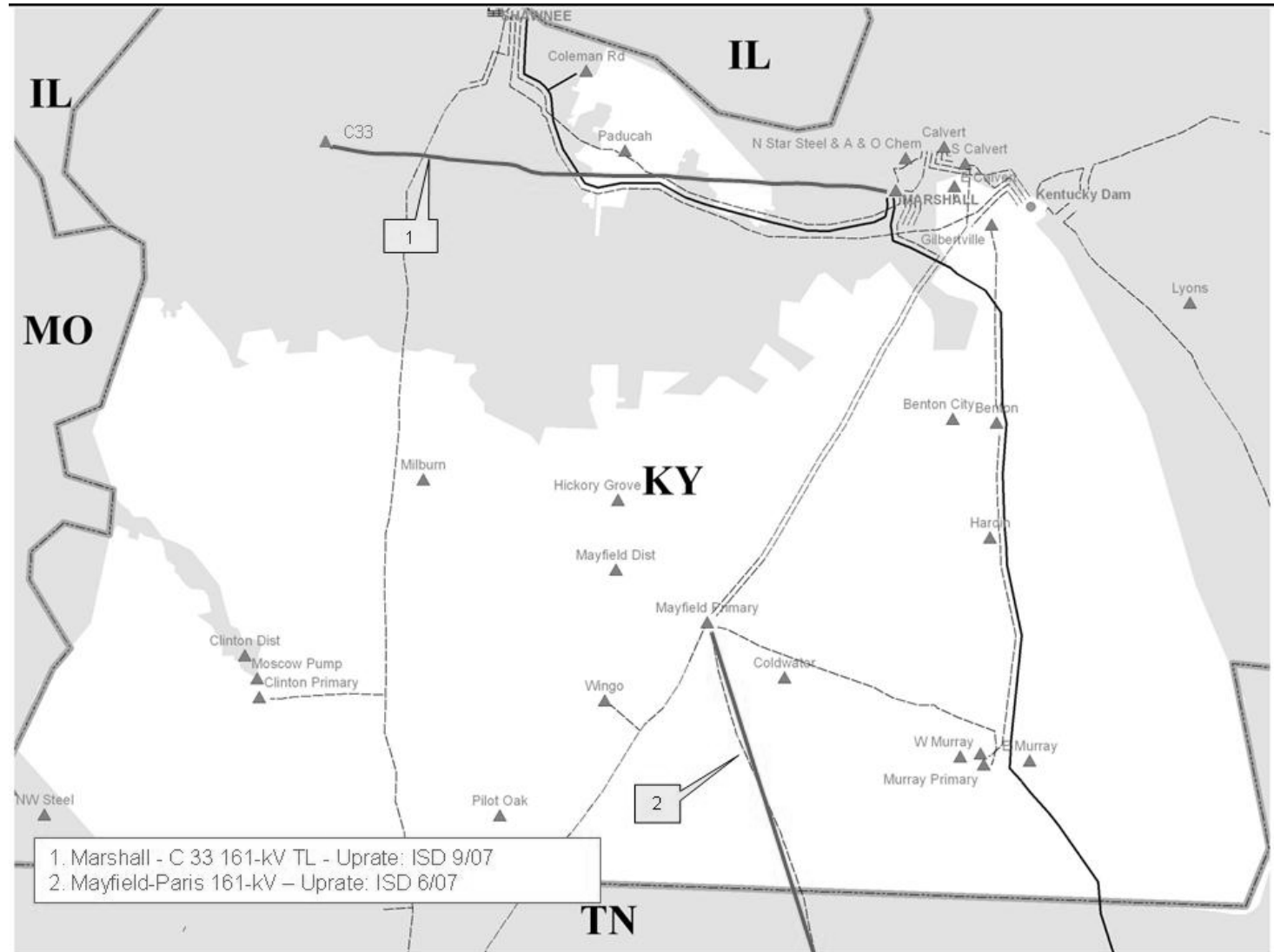
Planned Bulk System Capital Projects

- 2004 - 2010

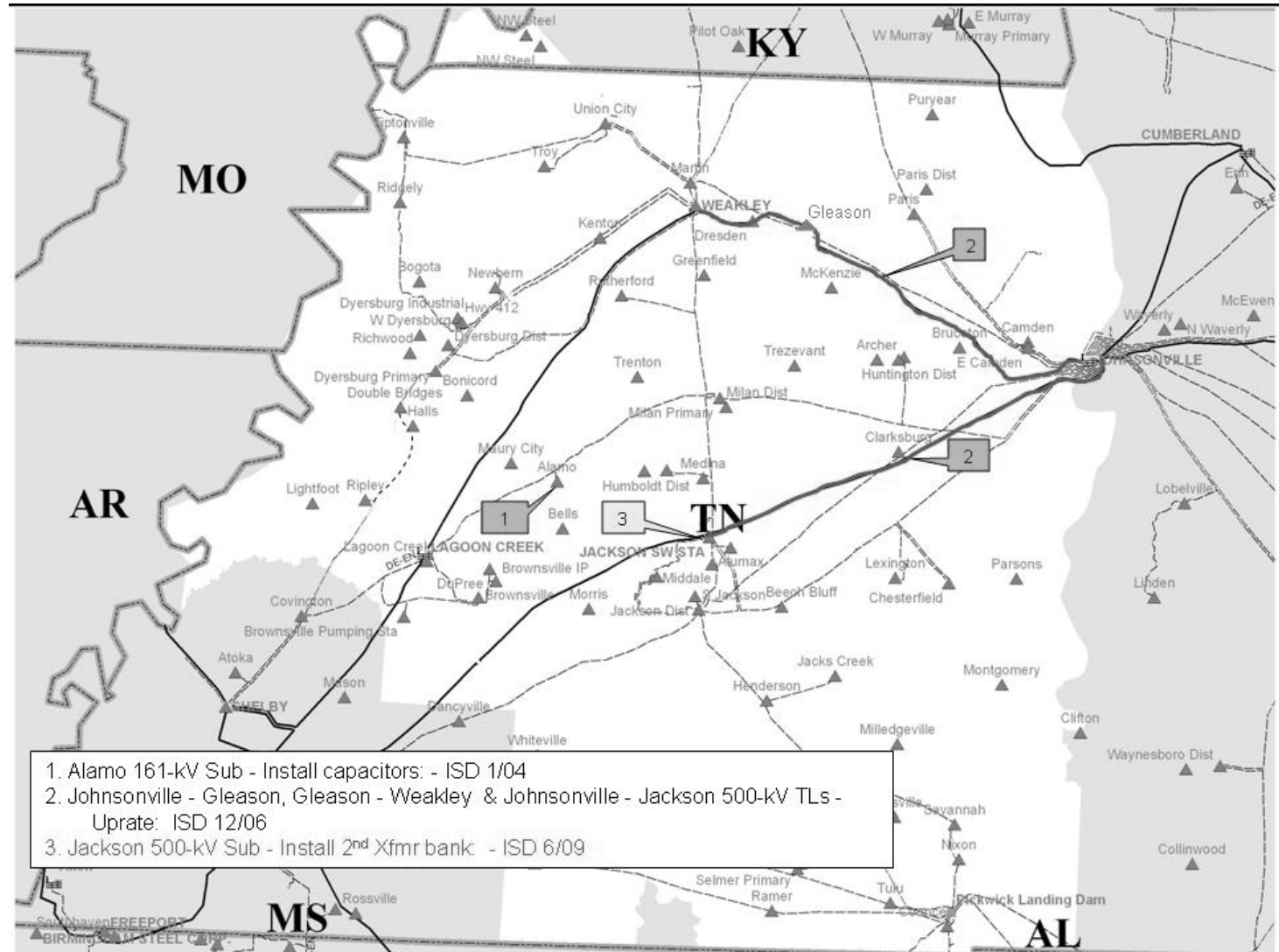
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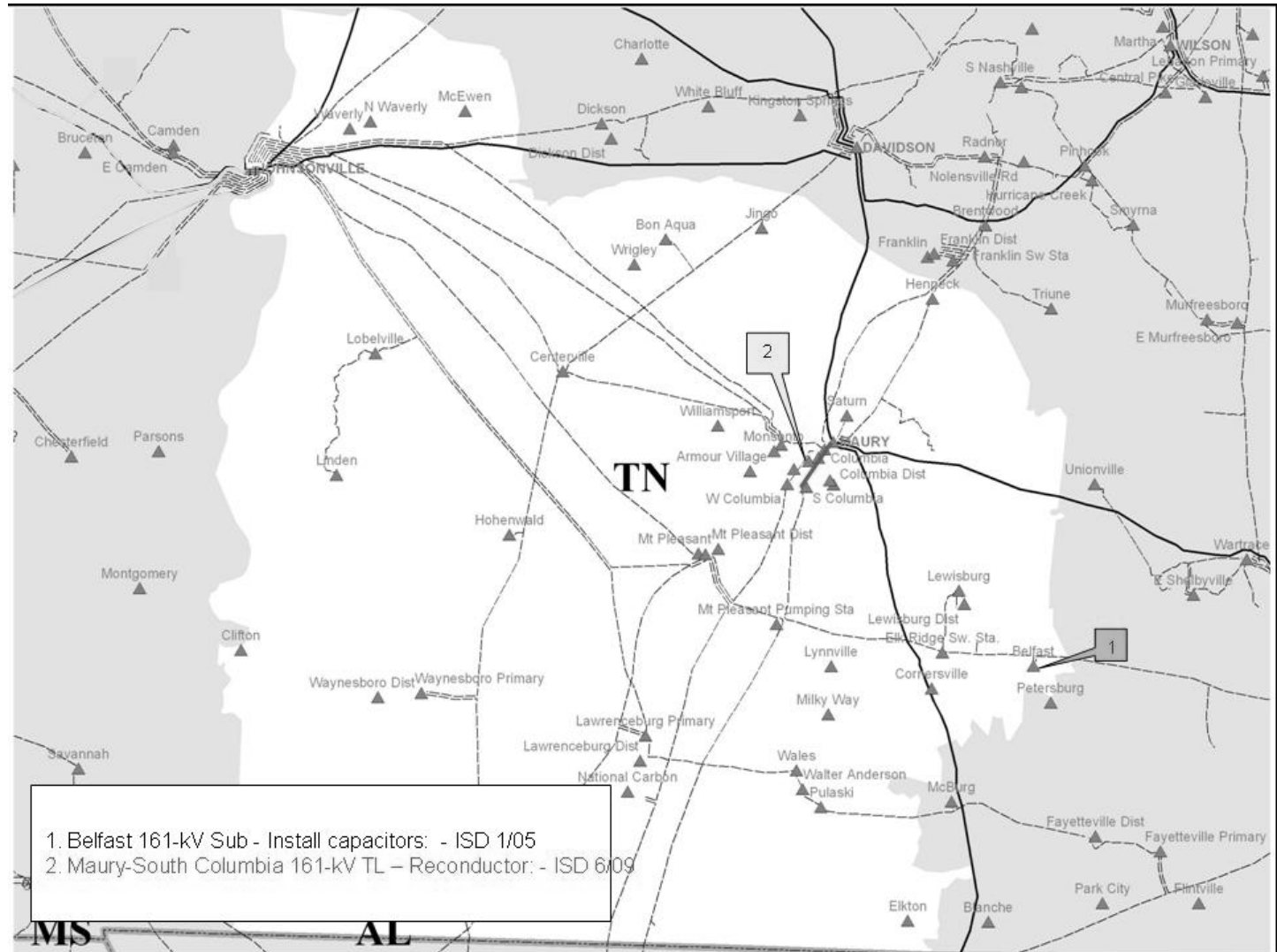
West Kentucky



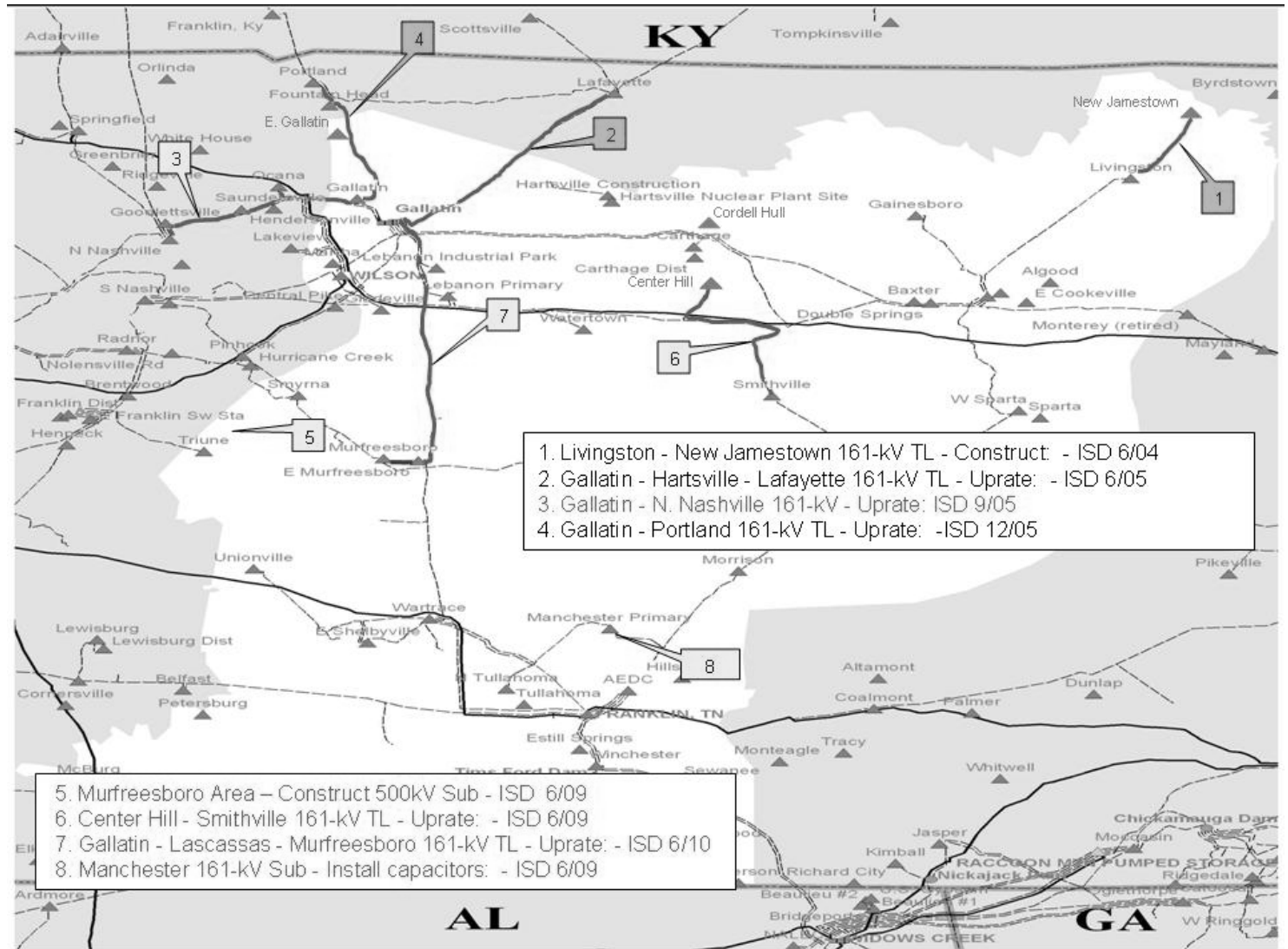
West Tennessee



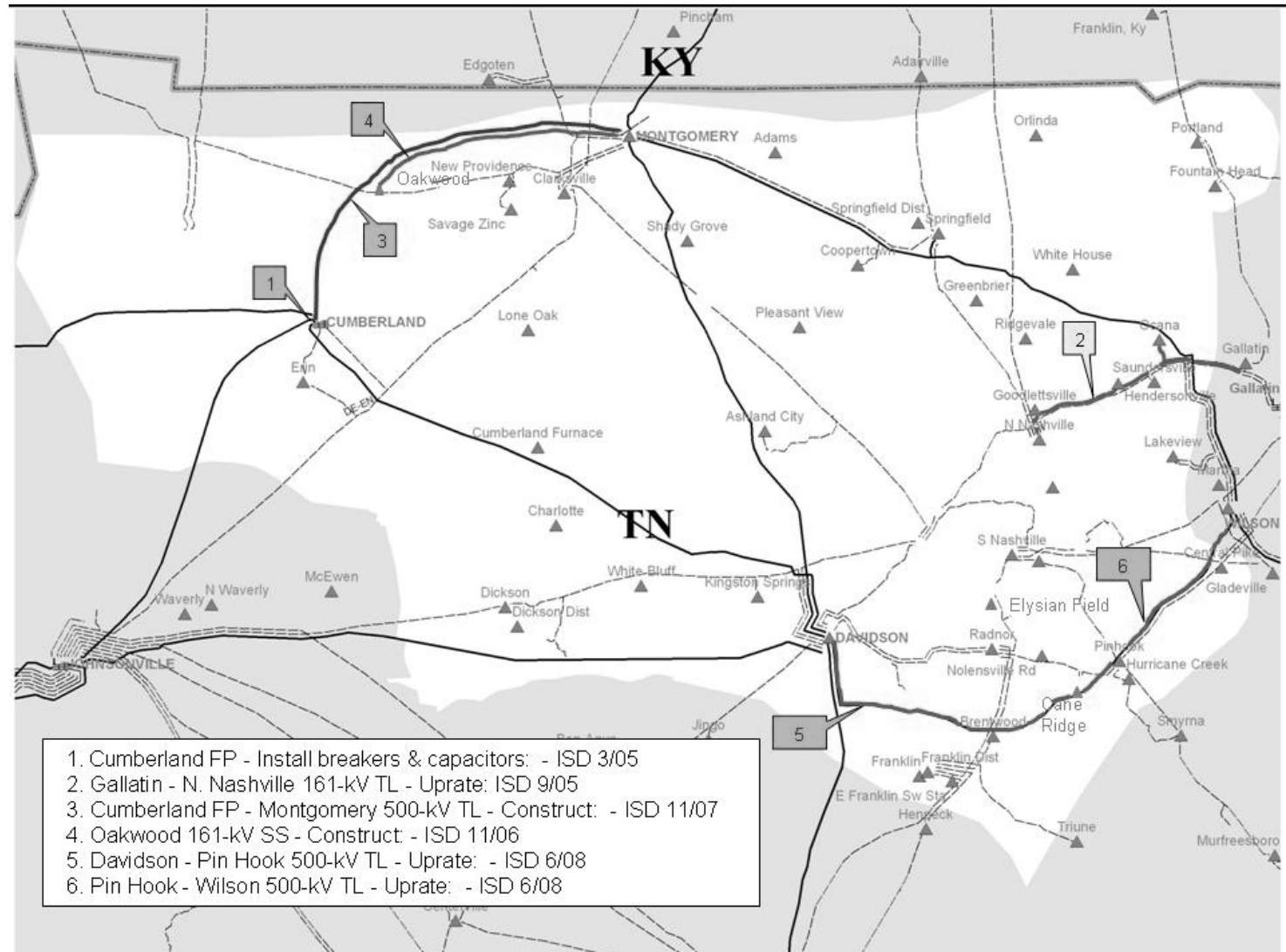
Middle Tennessee



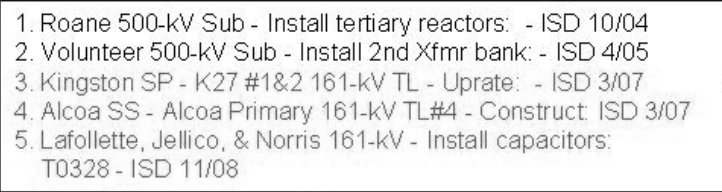
Middle Tennessee



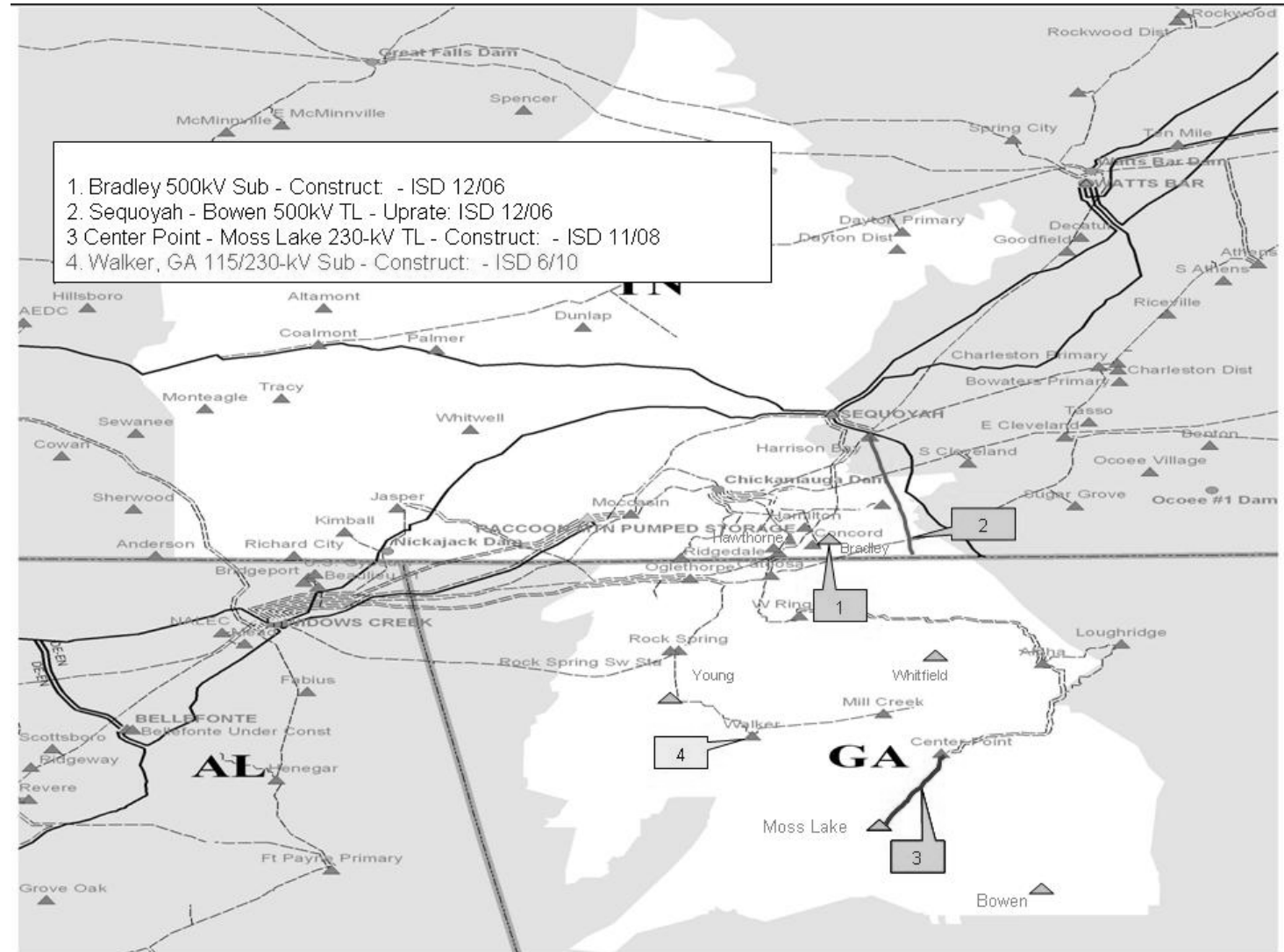
Middle Tennessee



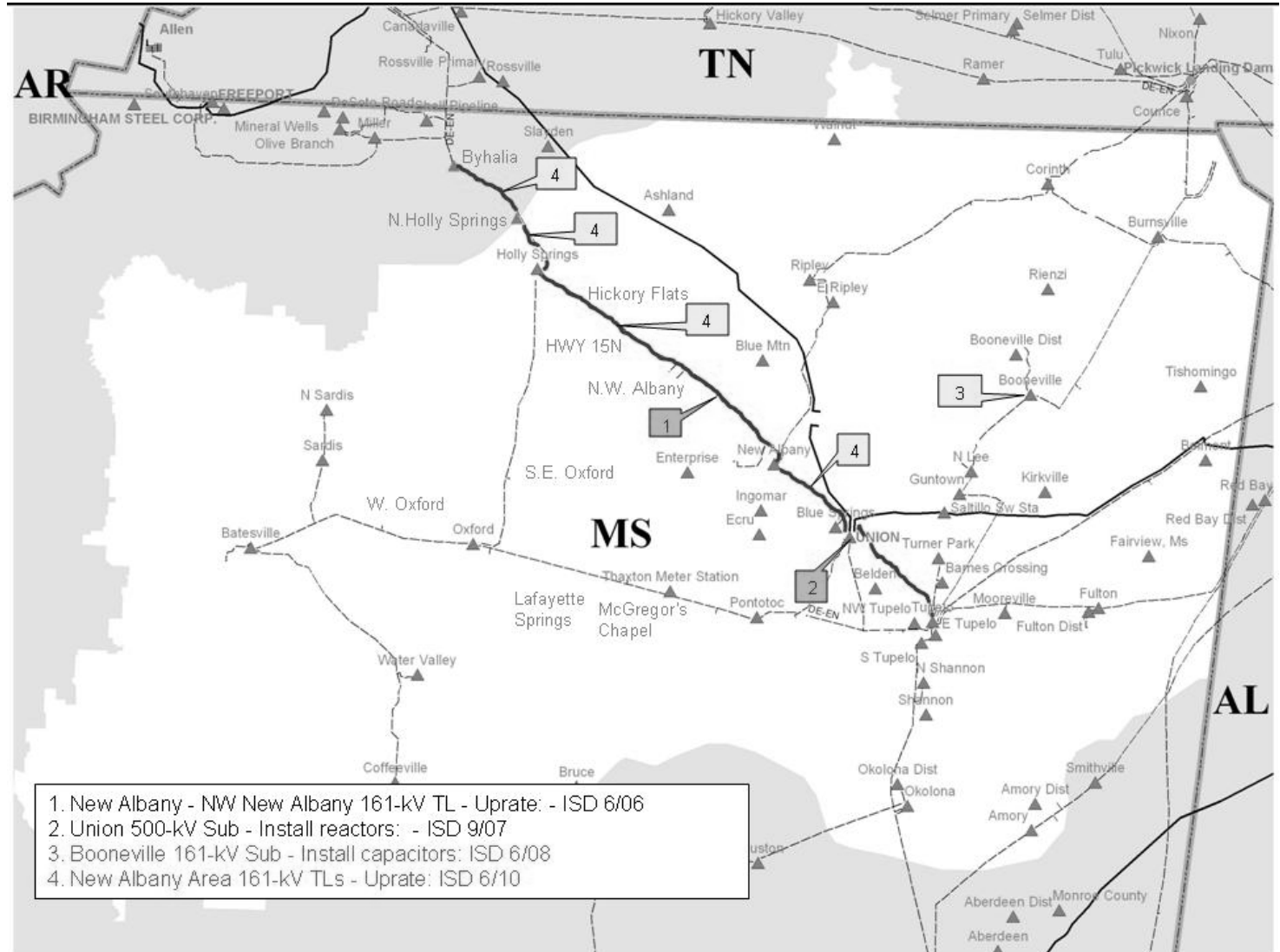




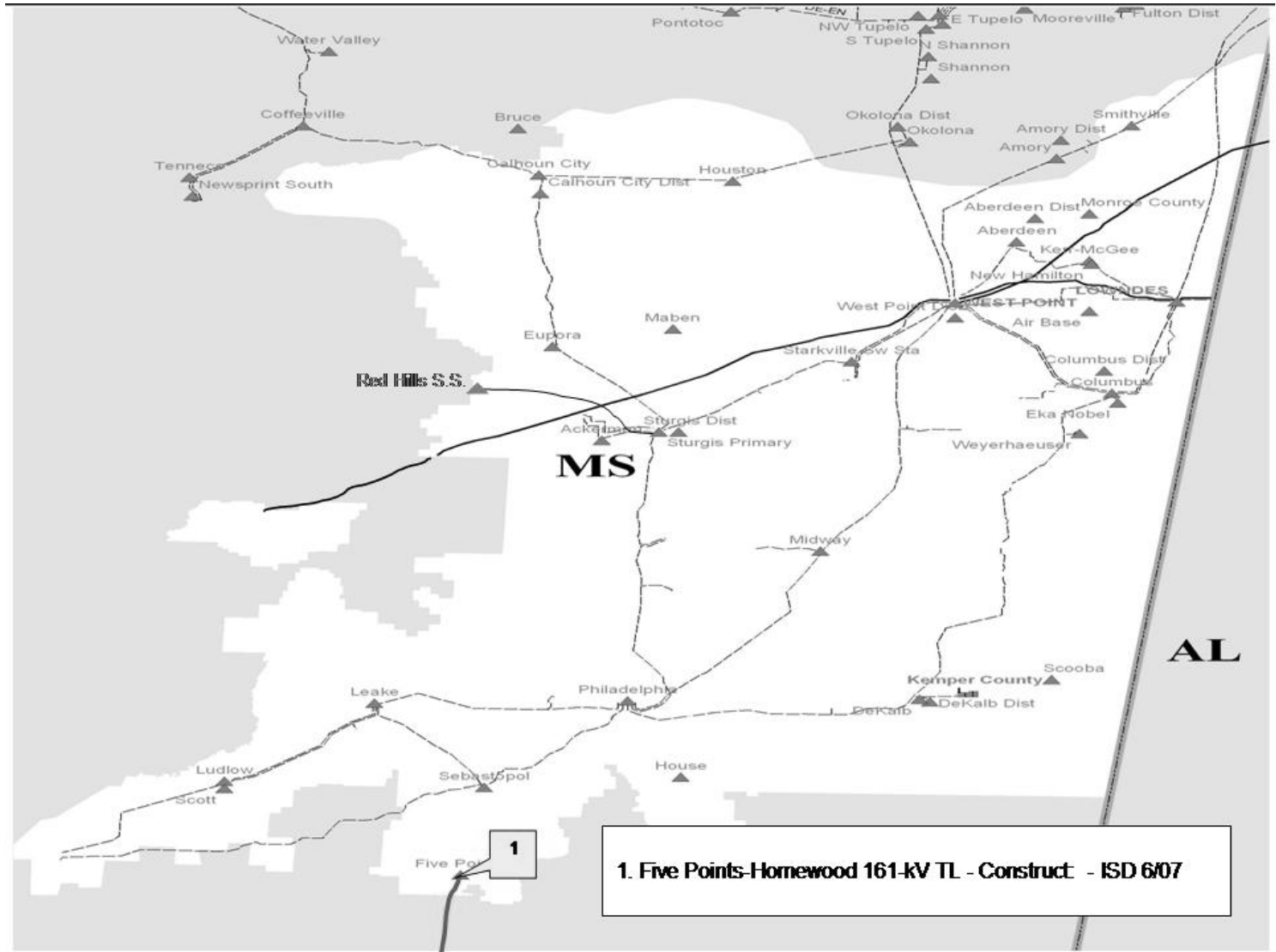
East Tennessee / North Georgia



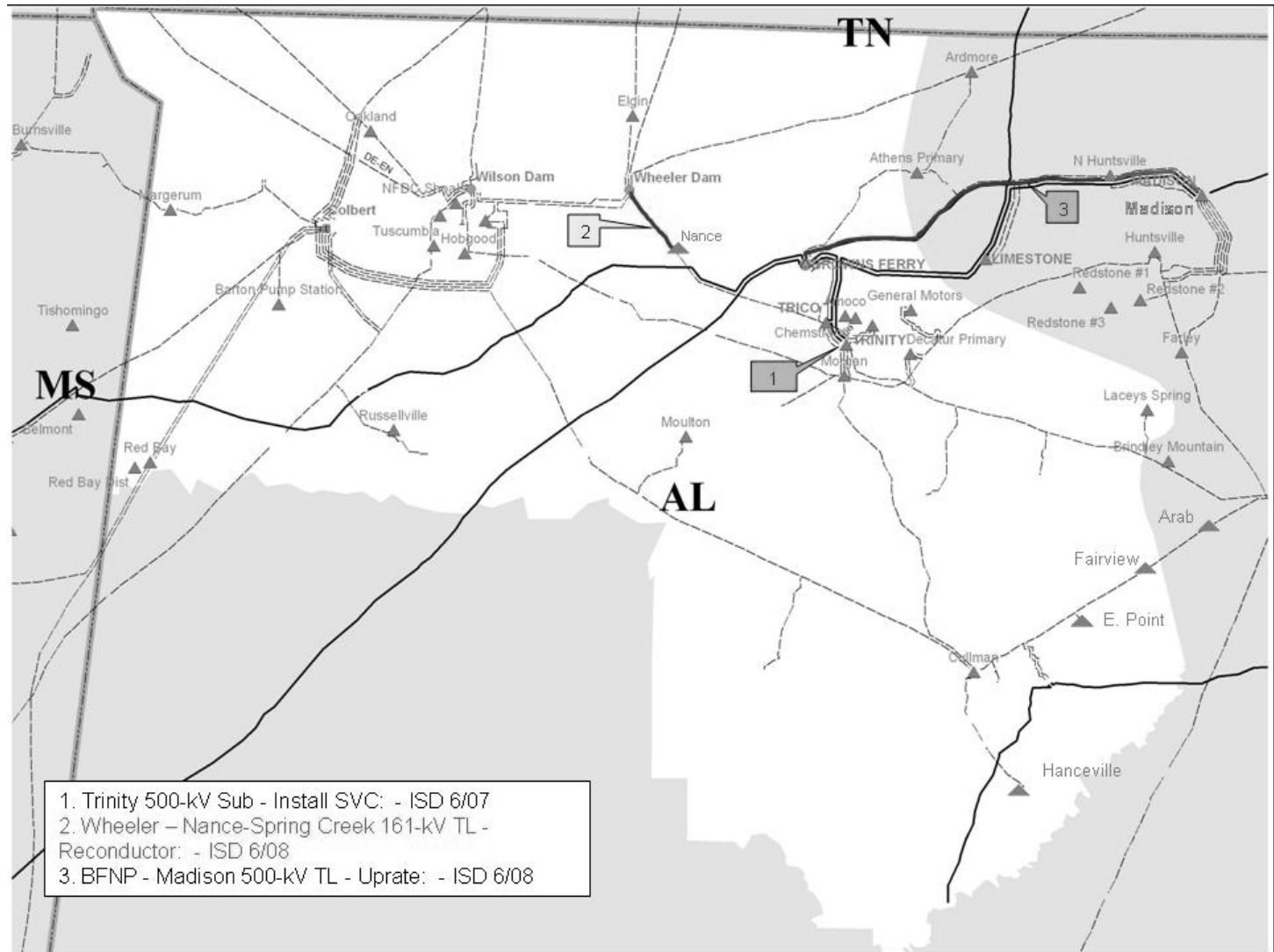
Mississippi



Mississippi



Alabama



Alabama

